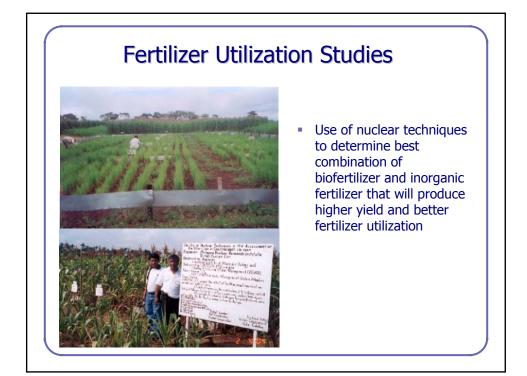


## Sterile Insect Technique (SIT)

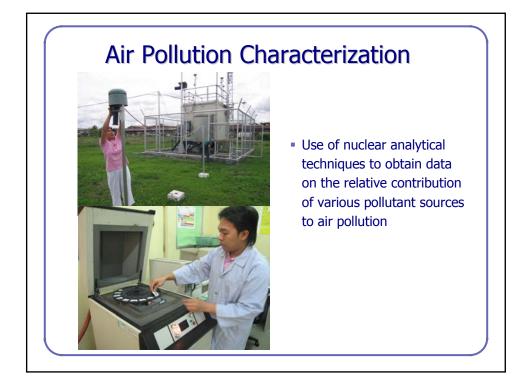


SIT involves:

- mass rearing of fruit flies
  - exposure of pupae to gamma rays to make them sterile
- release of the sterile flies in the target area to mate with the wild fruit fly population.
- Continuous releases of sterile flies will eventually control or eliminate the pest.







## Ground Water Resource Management

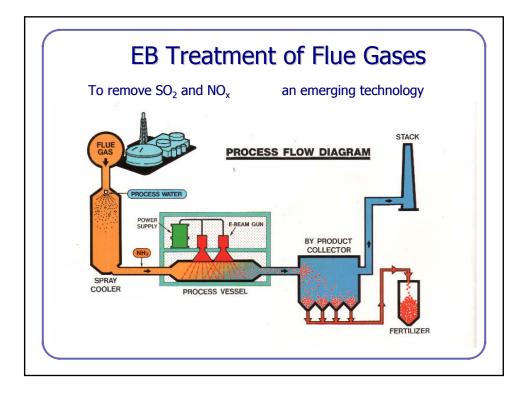


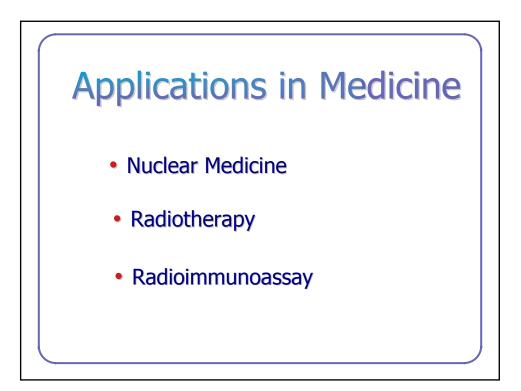
 Isotopes and chemical techniques are used to identify origin of groundwater and to assess its vulnerability to pollution

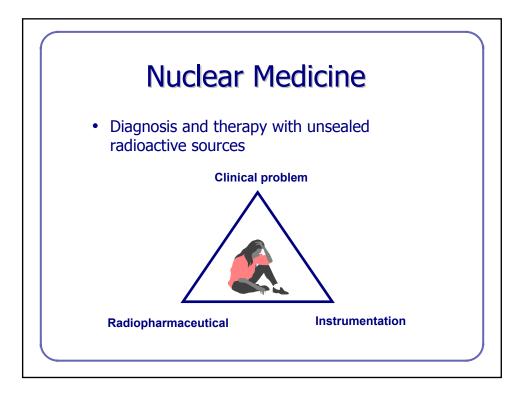
## Control of Algal Bloom (Red Tide)

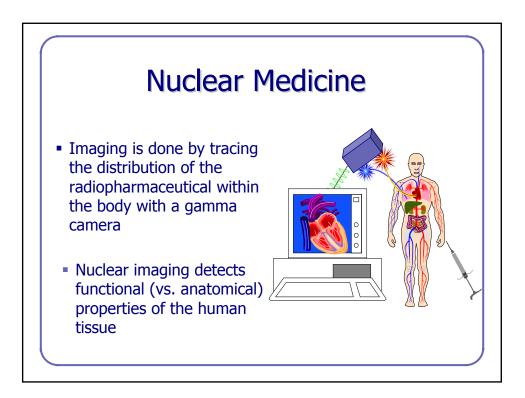


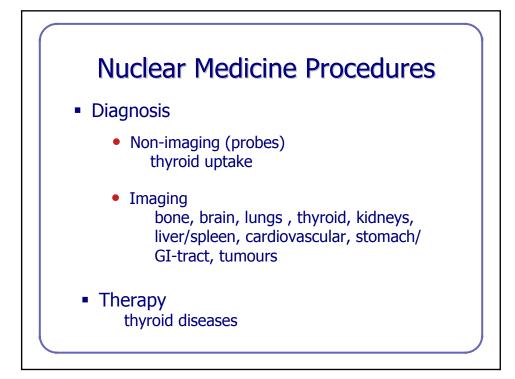
- Nuclear technique can be used to rapidly detect red tide toxins
- Nuclear technique used to obtain historical profile of sediment core in red tide affected area

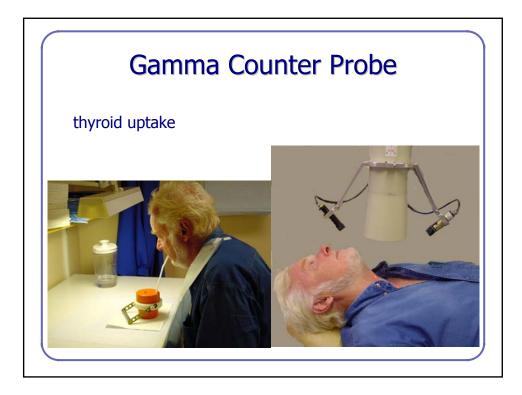


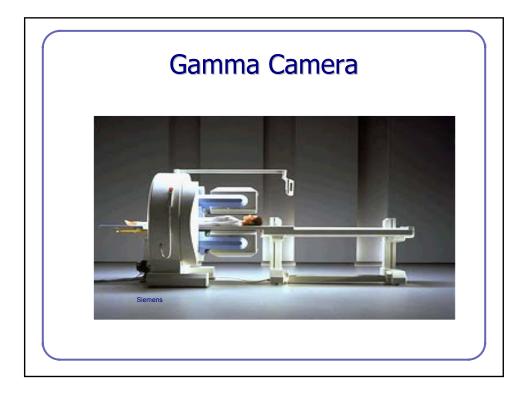


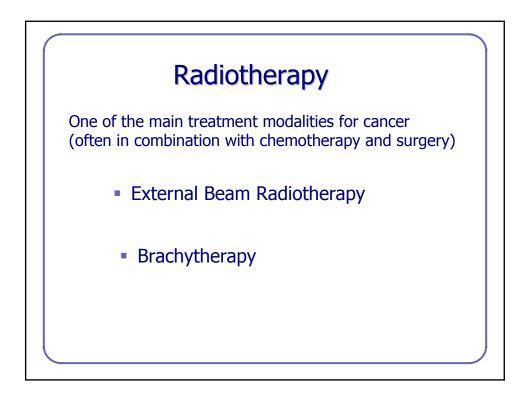


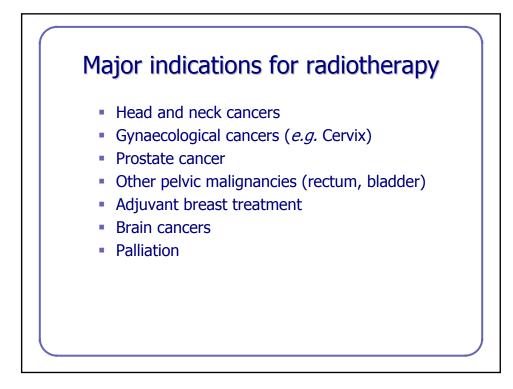


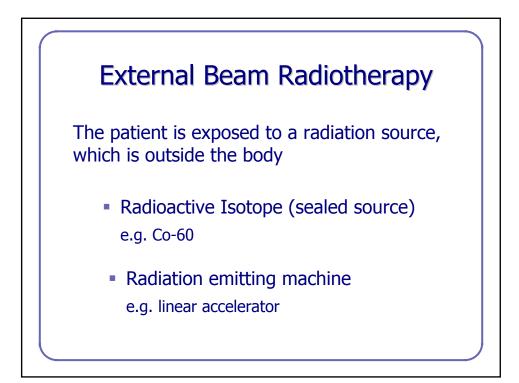




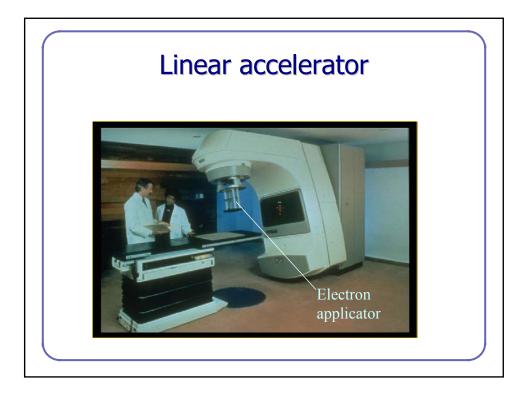


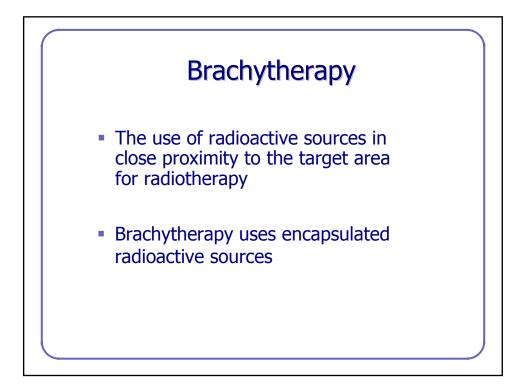


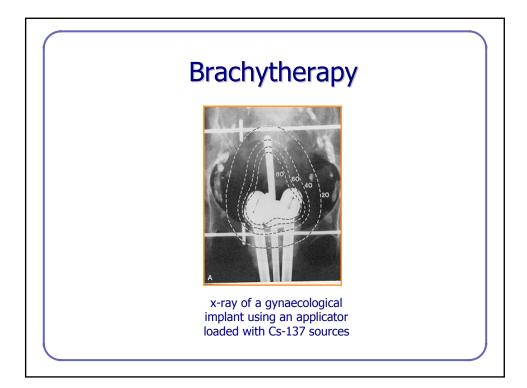


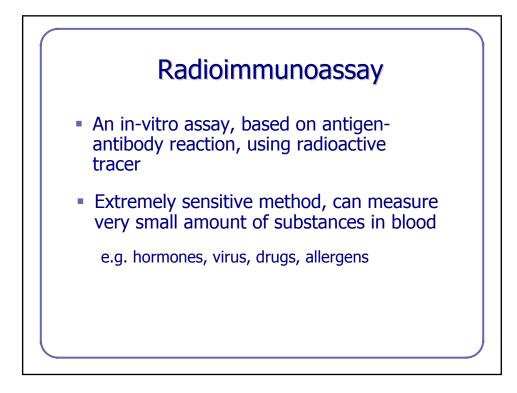




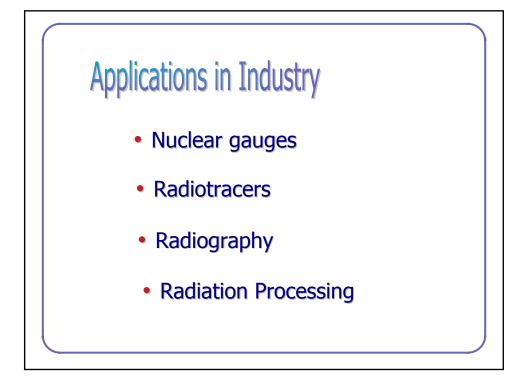


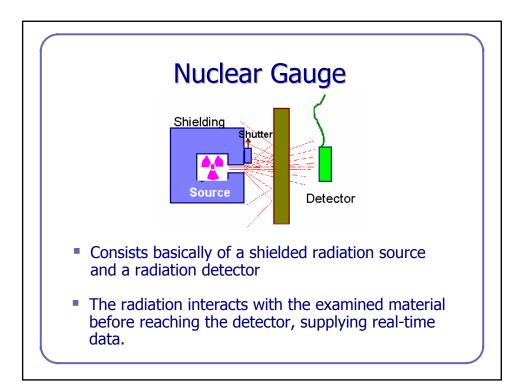


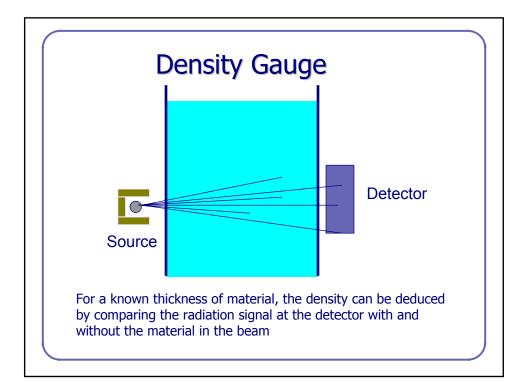


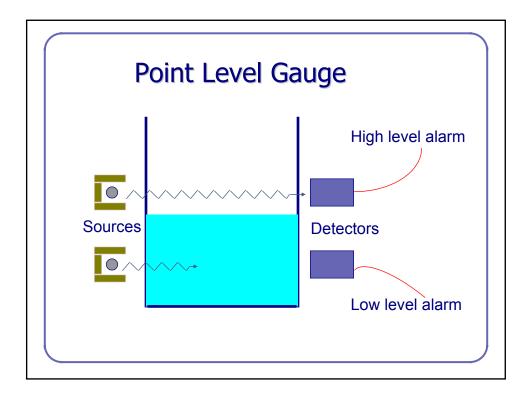


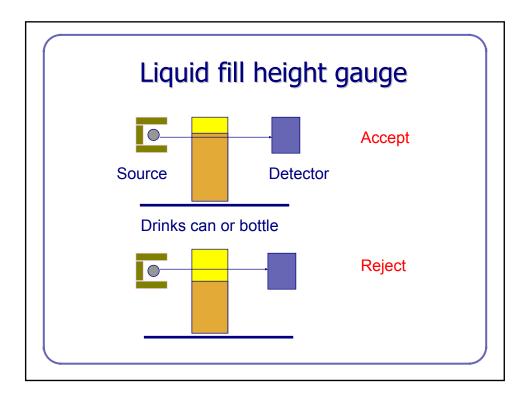


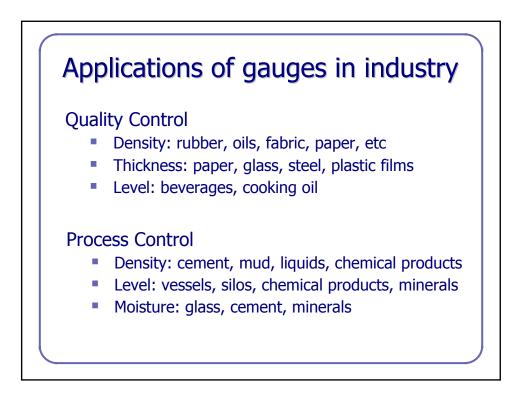


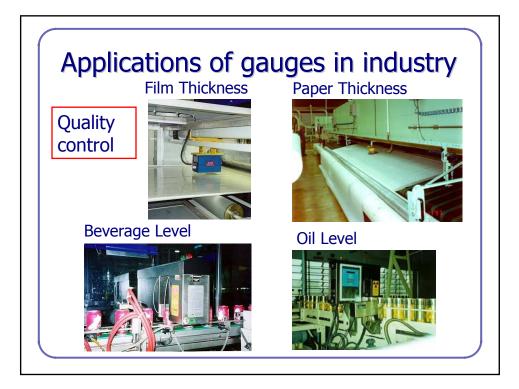


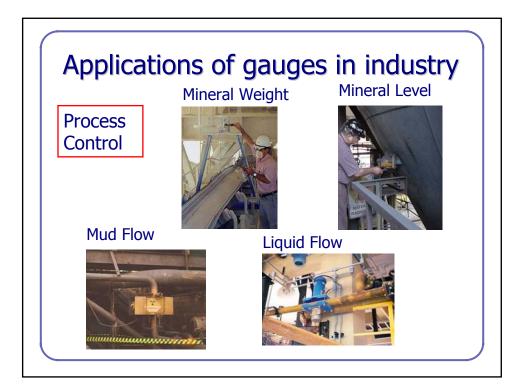


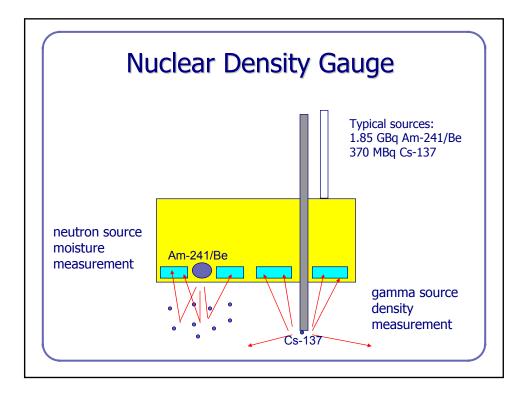


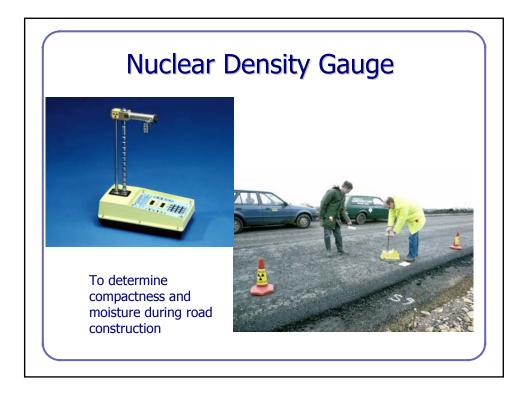




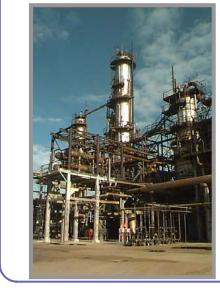








## Gamma Column Scanning



Technique using sealed radioactive source to determine or locate problems in process vessels in oil refineries, without shutting down the plant

